

## **[Keynote Talk]: Wave-Tidal Integral Turbine Hybrid Generation Approach for Characterizing Performance of Surface Wave**

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**Abstract :** Boundless renewable energy, such as tidal energy, tidal current energy, wave energy, thermal energy and chemical energy are covered and possessed by oceans. The hybrid system helps in improving the economic and environmental sustainability of renewable energy systems to fulfill the energy demand. The objective and concept of hybridizing renewable energy is to meet the desired system requirements, with the lowest value of the energy cost. This paper reviews applications of using hybrid power generation system for remote area. It also highlights the future directions to investigate the impacts of surface waves on turbine design and performance. The importance of understanding the site-specific wave conditions could also be explored.

**Keywords :** hybrid, marine current energy, tidal turbine, wave turbine

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